



EXPLORATORY HOLE PHOTOGRAPHS

Remarks Machine excavated trial pit from GL to 4.00m	Exploratory Hole
	S1-TP109

Project	Global Centre of Rail Excellence	Easting	283263.34	Equipment	13 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211886.54	Method	TP
Project No	G22069	Level	236.96 mAOD	Termination Reason	Scheduled depth

Sheet 3 of 3



S1-TP109 - Spoil

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		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 3.50m.		Exploratory Hole
						S1-TP110
Project	Global Centre of Rail Excellence	Easting	283174.60	Equipment	20 Tonne Tracked Excavator	Sheet 1 of 3
Client	Walters UK Limited	Northing	211887.85	Method	TP	
Project No	G22069	Level	231.43 mAOD	Termination Reason	Unstable	



S1-TP110 - Face A



S1-TP110 - Face B

EXPLORATORY HOLE PHOTOGRAPHS

Remarks
Machine excavated trial pit from GL to 3.50m.

Exploratory Hole
S1-TP110

Project	Global Centre of Rail Excellence	Easting	283174.60	Equipment	20 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211887.85	Method	TP
Project No	G22069	Level	231.43 mAOD	Termination Reason	Unstable

Sheet 2 of 3



S1-TP110 - Face C



S1-TP110 - Face D

EXPLORATORY HOLE PHOTOGRAPHS

Remarks Machine excavated trial pit from GL to 3.50m.	Exploratory Hole
	S1-TP110

Project	Global Centre of Rail Excellence	Easting	283174.60	Equipment	20 Tonne Tracked Ecavator	Sheet 3 of 3
Client	Walters UK Limited	Northing	211887.85	Method	TP	
Project No	G22069	Level	231.43 mAOD	Termination Reason	Unstable	



S1-TP110 - Spoil

				TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole	
				Date and Time		Depth	Water Depth	S1-TP111				
				15/11/2022 09:33		0.00	3.48	Sheet 1 of 1				
				15/11/2022 10:57								
Project		Global Centre of Rail Excellence		Equipment		21 Tonne Tracked Excavator						
Client		Walters UK Limited		Method		TP						
Project No		G22069	Level	231.25 mAOD	Orientation		125 degrees					
Easting		284432.79	Northing	210649.48	Length		4.20				Scale 1:20	
Termination Reason		Terminated on bedrock		Width		0.70				Logged SC		
Checked												
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description				Scale	Backfill
3 B	0.10 - 0.30	PID: 0.0ppmv		0.00			Soft greyish black silty slightly sandy gravelly CLAY. Sand is medium to coarse. Gravel is subangular medium to coarse of limestone. (MADE GROUND)					
1 ES	0.10											
2 D	0.20 - 0.25	PID: 0.1ppmv		(0.30)			Geology Code: MGR 2nd Geology Code: CL					
2 D	0.20 - 0.30											
4 D	0.20			0.30	230.95							
5 ES	0.30 - 0.35			(0.20)			Grey sandy angular fine GRAVEL of mudstone. Sand is coarse. (MADE GROUND)					
5 ES	0.40 - 0.50	PID: 0.0ppmv		0.50	230.75		Geology Code: MGR 2nd Geology Code: GR				0.50	
	0.50											
7 B	0.70 - 1.00											
6 ES	0.90 - 1.00	PID: 0.0ppmv					Firm to stiff brownish grey mottled orangish grey slightly silty sandy gravelly CLAY with low boulder content. Sand is medium to coarse. Gravel is angular to subangular fine to coarse of mudstone and occasional sandstone. Boulders are subangular of mudstone (400mm x 500mm x 70mm). (Weathered SOUTH WALES MIDDLE COAL MEASURES)					
8 D	0.90						Geology Code: SWCM 2nd Geology Code: CL					
8 D	1.00 - 1.05	PID: 0.1ppmv									1.00	
	1.00			(1.50)								
9 D	1.50 - 1.55											
	1.60	PID: 0.0ppmv					1.50m - 2.00m Becoming very gravelly.				1.50	
10 B	2.00 - 2.30	PID: 0.0ppmv		2.00	229.25							
10 B	2.00						Dark brown slightly clayey sandy angular to subangular fine to coarse GRAVEL of mudstone. Sand is coarse. (Weathered SOUTH WALES MIDDLE COAL MEASURES)				2.00	
11 D	2.50 - 2.55						Geology Code: SWCM 2nd Geology Code: GR					
				(1.50)							2.50	
12 D	3.00 - 3.05	PID: 0.0ppmv										
13 B	3.00 - 3.30										3.00	
13 B	3.00											
14 D	3.50				227.75		End of Exploratory Hole at 3.50m				3.50	
											4.00	
Weather		Dry	Trial Pit Excavation Onsite Layout				Water Strikes					
Shoring		None	Engineer Face D Face A Face B Face C Excavator				Date and Time	Strike	Rising to	Time	Remarks	
Stability		Stable	Log presents Face A unless otherwise noted.									
Remarks Machine excavated trial pit from GL to 3.50m												

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 3.50m		Exploratory Hole
						S1-TP111
Project	Global Centre of Rail Excellence	Easting	284432.79	Equipment	21 Tonne Tracked Excavator	Sheet 1 of 3
Client	Walters UK Limited	Northing	210649.48	Method	TP	
Project No	G22069	Level	231.25 mAOD	Termination Reason	Terminated on bedrock	



S1-TP111 Face C



S1-TP111 Face B

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 3.50m		Exploratory Hole
						S1-TP111
Project	Global Centre of Rail Excellence	Easting	284432.79	Equipment	21 Tonne Tracked Excavator	Sheet 2 of 3
Client	Walters UK Limited	Northing	210649.48	Method	TP	
Project No	G22069	Level	231.25 mAOD	Termination Reason	Terminated on bedrock	



S1-TP111 Face A



S1-TP111 Spoil



EXPLORATORY HOLE PHOTOGRAPHS

Remarks Machine excavated trial pit from GL to 3.50m	Exploratory Hole
	S1-TP111

Project	Global Centre of Rail Excellence	Easting	284432.79	Equipment	21 Tonne Tracked Excavator	Sheet 3 of 3
Client	Walters UK Limited	Northing	210649.48	Method	TP	
Project No	G22069	Level	231.25 mAOD	Termination Reason	Terminated on bedrock	

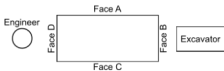


S1-TP111 Face D

TRIAL PIT EXPLORATORY HOLE LOG

TRIAL PIT EXPLORATORY HOLE LOG										Exploratory Hole Progress by Time			Exploratory Hole		
										Date and Time		Depth	Water Depth	S1-TP112	
15/11/2022 11:22		0.00		1.10		Sheet 1 of 1		Scale 1:20		Logged SC		Checked			
15/11/2022 12:13		1.70													
Project		Global Centre of Rail Excellence		Equipment										21 Tonne Tracked Excavator	
Client		Walters UK Limited		Method										TP	
Project No		G22069		Level										232.16 mAOD	
Easting		284486.56		Northing		210626.19		Length		5.40					
Termination Reason		Water ingress and instability		Width		0.70									

Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks	Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill
1 B 2 D 3 ES 4 ES 5 D 6 D	0.20 - 0.30 0.20 - 0.30 0.20 - 0.30 0.20 0.30 - 0.40 0.30 - 0.40 0.30 0.50 - 0.60	PID: 0.0ppmv PID: 0.0ppmv	0.00 (0.20) 0.20 (0.10) 0.30	231.96 231.86		Blackish grey silty subangular coarse GRAVEL of limestone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR Grey slightly clayey gravelly coarse SAND. Gravel is angular fine of mudstone and occasional sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR Blackish grey slightly silty sandy subangular fine to coarse GRAVEL of clinker, mudstone and coal. Sand is coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR 0.35m - 0.35m Geotextile membrane.	0.50	
7 D 8 ES 9 B	0.90 - 1.00 0.90 - 1.00 0.90 - 1.00 0.90	PID: 0.1ppmv	(1.40)			0.90m - 0.90m Wooden sleeper. 0.90m - 0.95m Soft black sandy SILT.	1.00	
10 D 11 ES 12 B	1.50 - 1.60 1.50 - 1.60 1.50 - 1.60 1.60	PID: 0.0ppmv		230.46		1.69m - 1.70m Brown sandy gravelly CLAY. (Probable weathered SOUTH WALE COAL MEASURES) End of Exploratory Hole at 1.70m	1.50 2.00 2.50 3.00 3.50 4.00	

Weather	Sunny	Trial Pit Excavation Onsite Layout				Water Strikes				
Shoring	None					Date and Time	Strike	Rising to	Time	Remarks
Stability	Unstable, collapsing from 1.30m					Log presents Face A unless otherwise noted.	15/11/2022 11:52	1.50	1.10	20mins

Remarks
Machine excavated trial pit from GL to 1.70m

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		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 1.70m		Exploratory Hole
						S1-TP112
Project	Global Centre of Rail Excellence	Easting	284486.56	Equipment	21 Tonne Tracked Excavator	Sheet 1 of 3
Client	Walters UK Limited	Northing	210626.19	Method	TP	
Project No	G22069	Level	232.16 mAOD	Termination Reason	Water ingress and instability	



S1-TP112 Face B



S1-TP112 Face A